





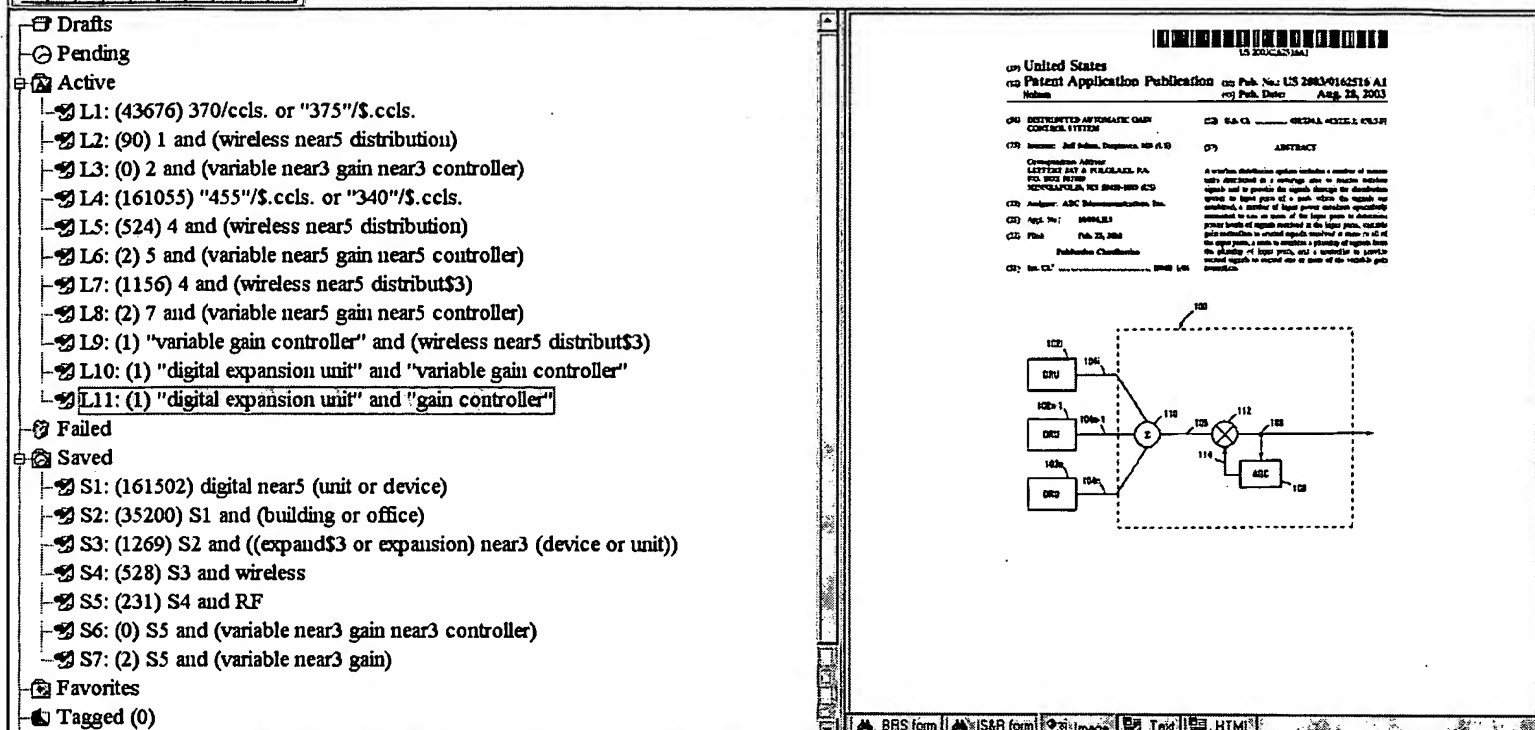


- |                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| US 2002-0053641                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (21) United States<br>(22) Patent Application Publication<br>Nation                                                    | (23) Pub. No.: US 2002/0162516 A1<br>(25) Pub. Date: Aug. 28, 2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (24) DELEGATED AUTOMATIC GAP<br>CONTROL SYSTEM                                                                         | (26) G. C. CLASS. (2622A) 4022.2 (263) F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (71) Applicant: Intel Software Corporation, INC. (U.S.)                                                                | (72) ABSTRACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Correspondence Address:<br>LEVITZKY, JAY & FERGUSON, P.A.<br>700 WEST RIVER<br>MORGANVILLE, NJ 07938-0700 (U.S.)       | A wireless distribution system includes a number of access<br>points distributed in a coverage area to receive wireless<br>signals and to provide the signals through the distribution<br>system to a target point of a mesh where the signals are<br>transmitted. A number of input power stations operating<br>connected to one or more of the input points to determine<br>power levels of signals received at the input points, and the<br>power contribution to control signals received at those or all<br>of the input points, a mesh or wireless network of signals from<br>the plurality of input points, and a controller to generate<br>control signals to input into one or more of the wireless gate<br>stations. |
| (73) Assignor: ADC Communications, Inc.<br>Appl. No.: 2000/01313<br>Filed: Feb. 28, 2000<br>Publication Classification | (74) Int. Cl. <sup>7</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
-  BRS form
  IS&P form
  Image
  Text
  HTML

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current X	Retri	Inventor	S
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20030162516 A1	20030828	8	Distributed automatic gain control system	455/234.1	455/232.1; 455/3.01		Sohm, Jeff	<input checked="" type="checkbox"/>

BEST AVAILABLE COPY

[illegible]



- ☑ L7: (58) 6 and remote
- ☑ L8: (3) 7 and "input port"
- ☑ L9: (38) 7 and port
- ☑ L10: (37) 9 and monitor\$3
- ☑ L11: (35) 10 and "control signal"
- ☑ L12: (35) 11 and (combin\$3 near5 signal)
- ☑ L13: (35) 12 and digital
- ☑ L14: (33) 13 and stream
- ☑ L15: (2) 14 and "predetermined level"
- ☑ L16: (580) 3 and "base station"
- ☑ L17: (72) 16 and (controller and node)
- ☑ L18: (52) 17 and "power level"
- ☑ L19: (44) 18 and monitor\$3
- ☑ L20: (35) 19 and "control signal"
- ☑ L21: (33) 20 and (combin\$3 near5 signal)
- ☑ L22: (17) 21 and port
- ☑ L24: (3) 23 and "predetermined level"
- ☑ L23: (17) 22 and digital
- ☑ L25: (3) 23 not satellite
- ☑ L26: (27) 20 and (combin\$3 near5 signal)
- ☑ L27: (13) 26 and port

Failed

## United States Patent (n)

Patent Number: 5,363,516

Date of Patent: Nov. 13, 1994

## ABSTRACT

A communication system and method for determining the location of a

TRANSMITTER UNIT

The system includes a base station and a mobile station. The base station

transmits a signal to the mobile station. The mobile station

receives the signal and transmits a response signal back to the base station.

The base station determines the location of the mobile station based on the

received signal and the response signal.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.

The system is adapted for use in a mobile communication system.



BRS form IS&amp;R form Image Text HTML

	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current X	Retr	Tr
8	<input type="checkbox"/>	<input type="checkbox"/>	US 6185409 B1	20010206	87	Network engineering/systems engineering system for mobile satellite	455/12.1	455/427		Threadgill; M
9	<input type="checkbox"/>	<input type="checkbox"/>	US 6112085 A	20000829	75	Virtual network configuration and management system for satellite com	455/428	455/430		Gamer; Will
10	<input type="checkbox"/>	<input type="checkbox"/>	US 6058307 A	20000502	97	Priority and preemption service system for satellite related communic	455/428	455/12.1		Gamer; Will
11	<input type="checkbox"/>	<input type="checkbox"/>	US 5913164 A	19990615	90	Conversion system used in billing system for mobile satellite system	455/427	455/12.1; 455/406;		Pawa; Robe
12	<input type="checkbox"/>	<input type="checkbox"/>	US 5713075 A	19980127	75	Network engineering/systems engineering system for mobile satellite	455/427	455/12.1		Threadgill; M
13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5365516 A	19941115	95	Communication system and method for determining the location of a trans	370/335	340/991; 342/457;		Jandrell; Lo

Hits Details HTML

Ready

NUM

EAST - [10084115-2.wsp:1]

File View Edit Tools Window Help

Drafts  
 Pending  
 Active  
 L1: (161502) digital near5 (unit or device)  
 L2: (35200) 1 and (building or office)  
 L3: (1269) 2 and ((expand\$3 or expansion) near3 (device or unit))  
 L4: (528) 3 and wireless  
 L5: (231) 4 and RF  
 L6: (0) 5 and (variable near3 gain near3 controller)  
 L7: (2) 5 and (variable near3 gain)  
 L8: (3103) 1 and (within near8 (building or office))  
 L9: (5) 8 and (variable near3 gain near3 controll\$3)  
 L10: (4) 9 and wireless  
 L11: (3) 10 and RF  
 Failed  
 Saved  
 Favorites  
 Tagged (2)  
 UDC  
 Queue  
 Trash

Refresh List Browse Download Clear  
 DBs: US-PG-PUB:USPAT:EPO  
 Default operator: OR  
 Highlight all hit terms initially

10 and RF

BRS form IS&R form Image Text HTML

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current X	Reti	Inventor	S
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20040097189 A1	20040520	20	Adaptive personal repeater	455/7			Bongfeldt, David et al	<input checked="" type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	US 20020045461 A1	20020418	15	Adaptive coverage area control in an on-frequency repeater	455/522	455/11.1; 455/69		Bongfeldt, David	<input checked="" type="checkbox"/>
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 20020045431 A1	20020418	16	Intelligent gain control in an on-frequency repeater	455/234.1	455/245.1; 455/250.1		Bongfeldt, David	<input checked="" type="checkbox"/>

Hit Details HTML

Ready

NUM

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**